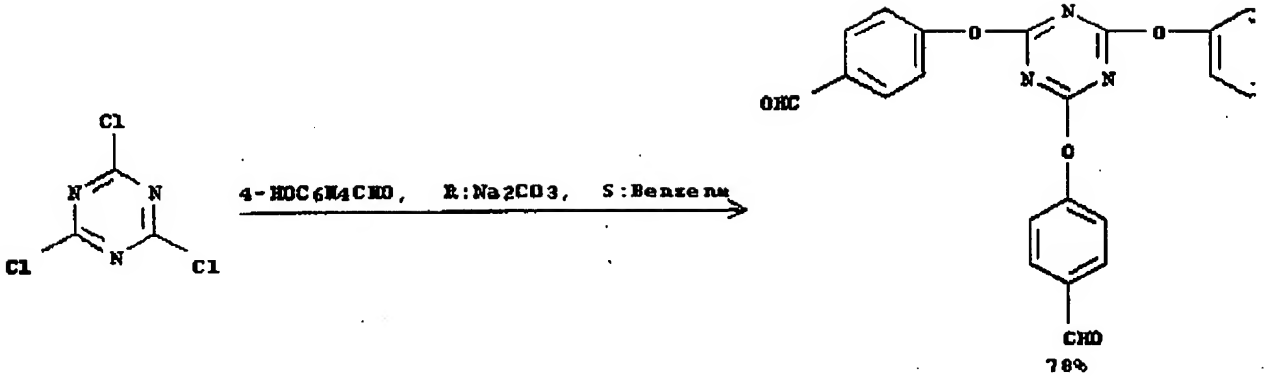
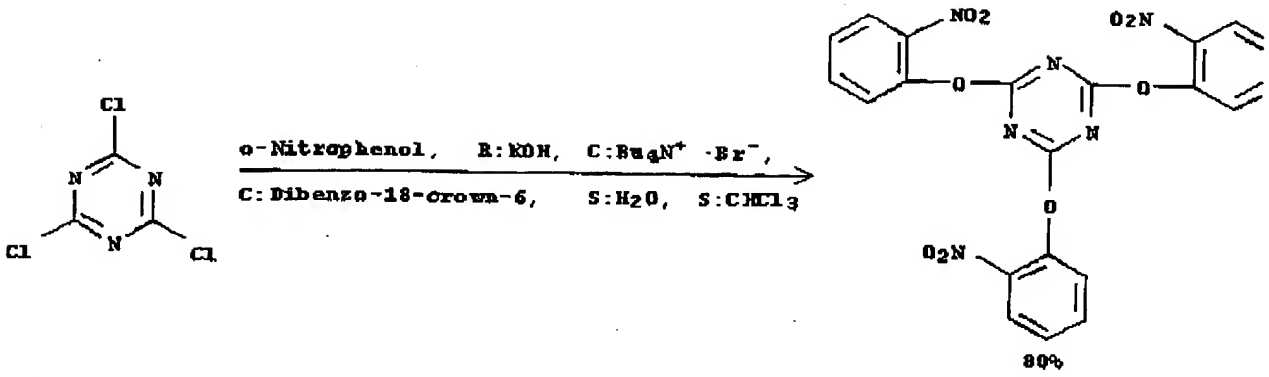
Reactions with alcohols/phenols:



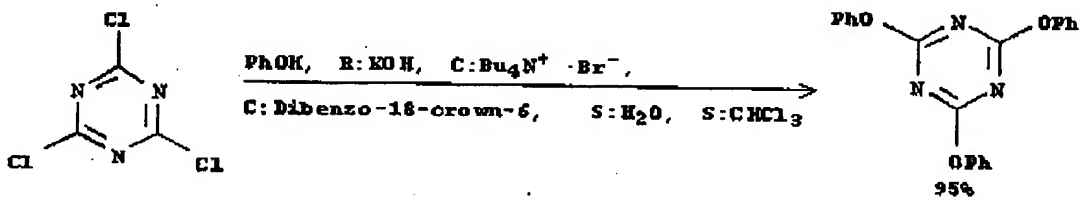
NOTE: Reactants: 2, Reagents: 1, Solvents: 1,
Steps: 1, Stages: 1

International Journal of Molecular Sciences, 3(11-12), 1145-1161; 2002
CASREACT



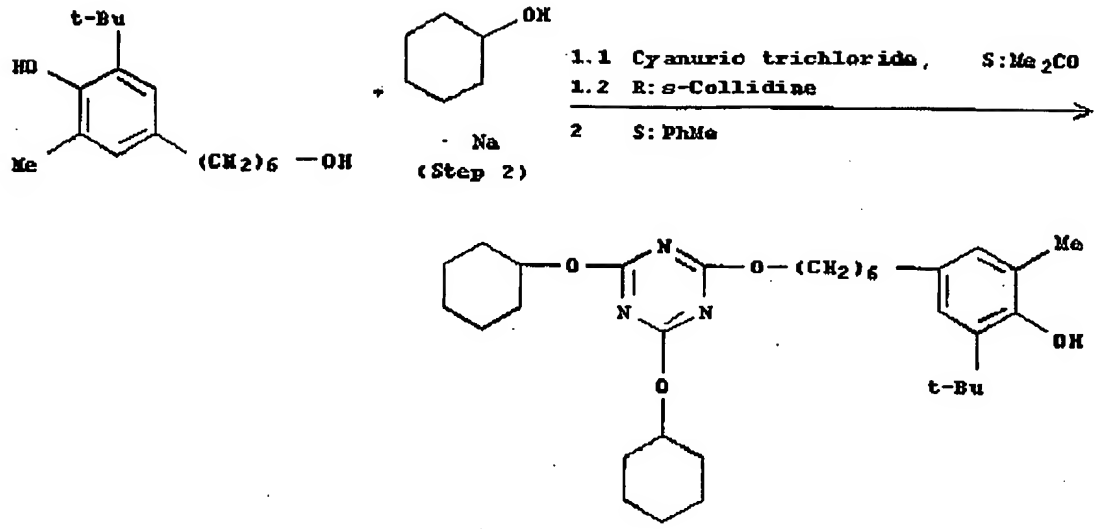
NOTE: Reactants: 2, Reagents: 1, Catalysts: 2, Solvents: 2, Steps: 1, Stages: 1

Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry, 38B(4), 482-483; 1999
CASREACT



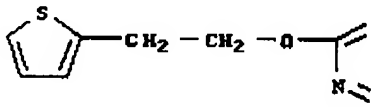
NOTE: Reactants: 2, Reagents: 1, Catalysts: 2, Solvents: 2, Steps: 1, Stages: 1

Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry, 38B(4), 482-483; 1999
CASREACT



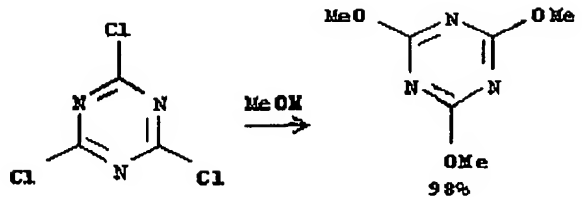
NOTE: Reactants: 3, Reagents: 1, Solvents: 2,
Steps: 2, Stages: 3, Most stages in any one step: 2

Ger. Offen., 4423553, 12 Jan 1995
CASREACT



NOTE: Reactants: 2, Reagents: 1, Solvents: 1,
Steps: 1, Stages: 1

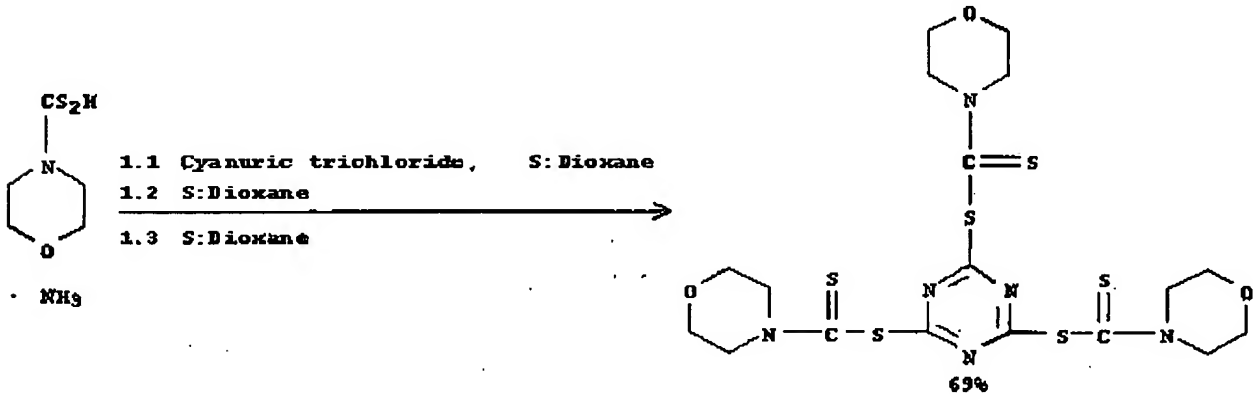
Synthetic Communications, 23(9), 1307-14; 1993
CASREACT



NOTE: Classification: Nucleophilic substitution; Alkoxylation; # Conditions: MeOH KOH,
Reactants: 2,
Steps: 1, Stages: 1

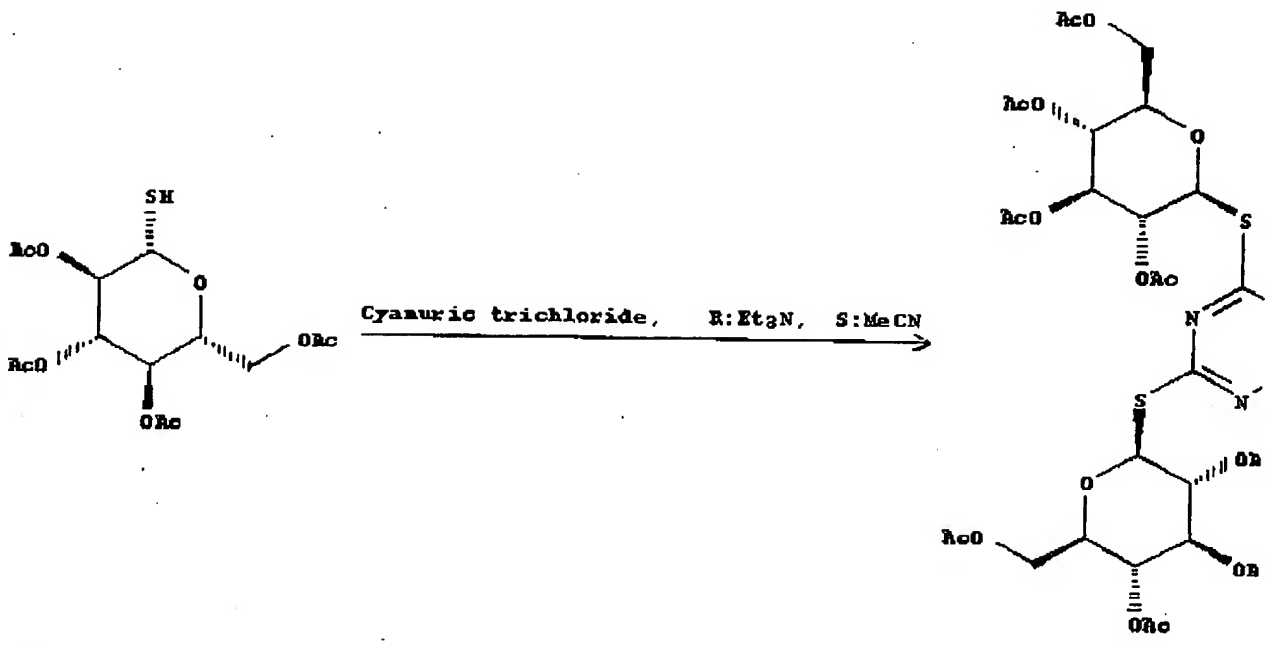
Journal of the American Chemical Society, 73, 2986-90; 1951
CASREACT

Reactions with thiol/thiophenol/thiol esters:



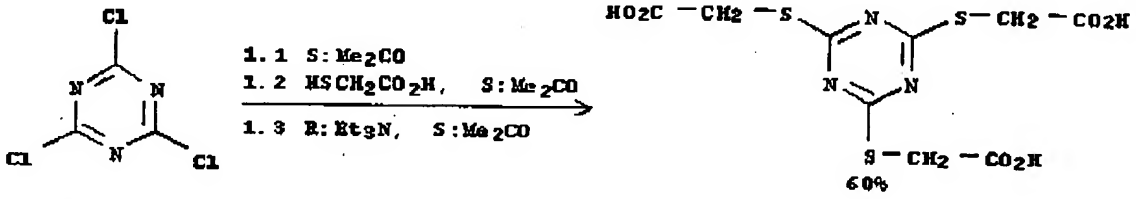
NOTE: Reactants: 2, Solvents: 1,
Steps: 1, Stages: 3

Indian Journal of Heterocyclic Chemistry, 13(4), 343-346; 2004
CASREACT



NOTE: Reactants: 2, Reagents: 1, Solvents: 1,
Steps: 1, Stages: 1

Carbohydrate Research, 144(1), 23-31; 1985
CASREACT



NOTE: Reactants: 2, Reagents: 1, Solvents: 1,
Steps: 1, Stages: 3

Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i Khimicheskaya Tekhnologiya, 45(5), 17-20; 2002
CASREACT

Research Topic task started on Fri Aug 19, 2005 at 3:36 PM

11 Research Topic candidates were identified in CAPLUS.

using the phrase "reaction of cyanuric halide with thiol"

Selected 1 of 11 candidate topics.
4 references were found where all of the concepts **"reaction"**, **"cyanuric halide"** and **"thiol"** were present anywhere in the reference.

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Bibliographic Information

Stabilizer mixtures, their preparation and their their application to fabrics. Tittmann, Rolf; Fuso, Francesco; Reinert, Gerhard; Haerri, Hans Peter. (Ciba-Geigy A.-G., Switz.). Eur. Pat. Appl. (1997), 27 pp. CODEN: EPXXDW EP 795640 A1 19970917 Designated States R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE. Patent written in German. Application: EP 97-810121 19970304. Priority: CH 96-663 19960313. CAN 127:264168 AN 1997:632124 CAPLUS (Copyright 2005 ACS on SciFinder (R))

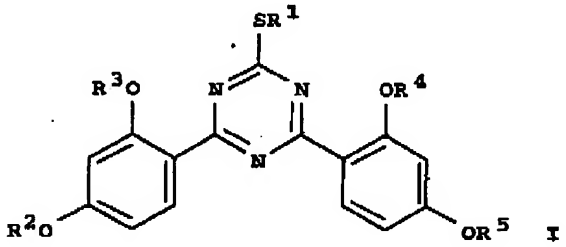
Patent Family Information

Patent No.	Kind	Date	Application No.	Date
EP 795640	A1	19970917	EP 1997-810121	19970304
		R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE		
US 5871669	A	19990216	US 1997-814301	19970310
JP 10008025	A2	19980113	JP 1997-56079	19970311
ZA 9702131	A	19970915	ZA 1997-2131	19970312
AU 9716256	A1	19970918	AU 1997-16256	19970312
AU 724535	B2	20000921		
BR 9701269	A	19990112	BR 1997-1269	19970312
TW 438925	B	20010607	TW 1997-86103042	19970312
CN 1163921	A	19971105	CN 1997-103141	19970313
CN 1091794	B	20021002		
US 5997769	A	19991207	US 1998-188937	19981110

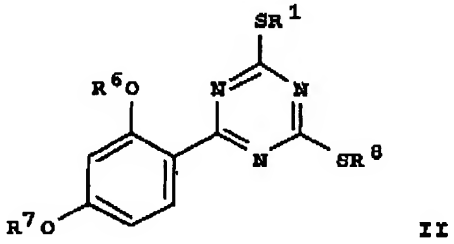
Priority Application
CH 1996-663 A 19960313
US 1997-814301 A3 19970310

Abstract

The stabilizers (I and II; R1, R8 = alkyl, cycloalkyl, alkenyl, optionally substituted aryl or aralkyl; R2, R3, R4, R5, R6, R7 = H, alkyl optionally substituted and/or contg. N, O, or S; or carbonyl or sulfonyl groups) are obtained from cyanuric halides and thiols and then resorcinol in the presence of a Lewis acid. I and II may be incorporated as light and heat stabilizers in dyeing or printing of polyester. In an example, cyanuric chloride was condensed with NaSMe to give a mixt. of mono- and dichlorotriazines, which were then used to arylate resorcinol; the OH groups of the products were selectively methylated to give a mixt. of 3 stabilizers.



I



II

Patent Classifications

Main IPC: D06M013-358. **Secondary IPC:** D06M013-248; D06P001-642; C07D251-20.

Indexing -- Section 40-9 (Textiles and Fibers)

Polyester fibers, processes
Role: PEP (Physical, engineering or chemical process); PROC (Process)
(fabrics; prepn. of heat and light stabilizers for)

Heat stabilizers
Light stabilizers
(triazine-based; prepn. of heat and light stabilizers for polyester fabric)

4407-40-3P, 2-Chloro-4,6-bis(methylthio)-1,3,5-triazine
13705-05-0P, 2,4-Dichloro-6-(methylthio)-1,3,5-triazine
13733-90-9P
30894-83-8P
195873-12-2P

195873-13-3P
195873-16-6P
195873-17-7P
Role: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; prepn. of heat and light stabilizers for polyester fabric)

156137-33-6P
177473-72-2P
177473-73-3P
195873-14-4P
195873-15-5P
195873-18-8P
195873-19-9P
Role: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(prepn. of heat and light stabilizers for polyester fabric)

108-46-3, Resorcinol, reactions
108-77-0, Cyanuric chloride
811-51-8, Sodium ethylthiolate
5188-07-8, Sodium methylthiolate
Role: RCT (Reactant); RACT (Reactant or reagent)
(starting material; prepn. of heat and light stabilizers for polyester fabric)

Supplementary Terms

triazine stabilizer polyester fabric; light stabilizer triazine based prepn; heat stabilizer triazine based prepn

Research Topic task started on Fri Aug 19, 2005 at 3:17 PM

11 Research Topic candidates were identified in CAPLUS.

using the phrase "reaction of cyanuric halide with alcohol"

Selected 1 of 11 candidate topics.
8 references were found containing all of the concepts **"reaction"**, **"cyanuric halide"** and **"alcohol"** closely associated with one another.

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Bibliographic Information

Preparation of triazine compounds and quaternary ammonium salts. Saijo, Masako; Hirano, Naoki. (Tokuyama Corporation, Japan). PCT Int. Appl. (2002), 24 pp. CODEN: PIXXD2 WO 2002004430 A1 20020117 Designated States W: CN, KR, US. Designated States RW: AT, CH, DE, FR, GB, IT. Patent written in Japanese. Application: WO 2001-JP5650 20010629. Priority: JP 2000-207802 20000710. CAN 136:69814 AN 2002:51443 CAPLUS (Copyright 2005 ACS on SciFinder (R))

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
WO 2002004430	A1	20020117	WO 2001-JP5650	20010629
		W: CN, KR, US		
		RW: AT, CH, DE, FR, GB, IT		
JP 2002020374	A2	20020123	JP 2000-207802	20000710
EP 1300400	A1	20030409	EP 2001-943880	20010629
		R: AT, CH, DE, FR, GB, IT, LI		
US 2002123628	A1	20020905	US 2002-70592	20020308
US 6673922	B2	20040106		
Priority Application				
JP 2000-207802	A	20000710		
WO 2001-JP5650	W	20010629		

Abstract

A process of prepg. 4,6-dialkoxy-1,3,5-triazine-2- halide by reacting a cyanuric halide with an alc. such as methanol in the presence of an alkali such as sodium hydrogen carbonate, characterized in that the amt. of water present in the reaction system at the beginning of the reaction is adjusted to 0.5 mol or below per mol of the cyanuric halide or that the amt. of water present in the reaction system during the reaction is adjusted to 2.5 mol or below per mol of the cyanuric halide. According to this process, 4,6-dialkoxy-1,3,5- triazine-2-halide can be prepd. in high yield.

Patent Classifications

Main IPC: C07D251-26. **Secondary IPC:** C07D251-46.

Indexing -- Section 28-13 (Heterocyclic Compounds (More Than One Hetero Atom)

Alcohols, reactions
Role: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of dialkoxyhalotriazines from cyanuric chloride and alcs.)

Quaternary ammonium compounds, preparation
Role: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of triazine compds. and quaternary ammonium salts)

Alkali metal hydroxides
Role: RGT (Reagent); RACT (Reactant or reagent)
(prepn. of triazine compds. and quaternary ammonium salts)

3140-73-6P, 2-Chloro-4,6-dimethoxy-1,3,5-triazine
30894-75-8P, 2-Chloro-4,6-diethoxy-1,3,5-triazine
Role: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of triazine compds. and quaternary ammonium salts)

3945-69-5P, 4-(4,6-Dimethoxy-1,3,5-triazin-2-yl)-4-methylmorpholinium chloride
Role: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of triazine compds. and quaternary ammonium salts)

7732-18-5, Water, miscellaneous
Role: MSC (Miscellaneous)
(prepn. of triazine compds. and quaternary ammonium salts)

64-17-5, Ethanol, reactions

67-56-1, Methanol, reactions
108-77-0, Cyanuric chloride
109-02-4, 4-Methylmorpholine
Role: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of triazine compds. and quaternary ammonium salts)

144-55-8, Sodium hydrogen carbonate, reactions
298-14-6
Role: RGT (Reagent); RACT (Reactant or reagent)

(prepn. of triazine compds. and quaternary ammonium salts)

Supplementary Terms

triazine quaternary ammonium salt prepn

Citations

Cronin; Synth Commun 1996, 26, 3491
Akzo Nv; JP 5198283 A 1976
Akzo Nv; GB 1520682 A 1976
Akzo Nv; GB 1523951 A 1976
Toyobo Co Ltd; JP 57212172 A 1982
Kunishima; Tetrahedron 1999, 55, 13159

Research Topic task started on Fri Aug 19, 2005 at 3:17 PM

11 Research Topic candidates were identified in CAPLUS.

using the phrase "reaction of cyanuric halide with thiols"

Selected 1 of 11 candidate topics.
8 references were found where all of the concepts **"reaction"**, **"cyanuric halide"** and **"thiols"** were present anywhere in the reference.

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Bibliographic Information

Preparation of substituted-2-mercapto-4,6-dihalo-s-triazines from trihalotriazines and thiols. Fukuda, Kenzo; Kondo, Yasuo. (Nissan Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho (2005), 10 pp. CODEN: JKXXAF JP 2005154408 A2 20050616 Patent written in Japanese. Application: JP 2004-205390 20040713. Priority: JP 2003-368238 20031029. CAN 143:43910 AN 2005:522115 CAPLUS (Copyright 2005 ACS on SciFinder (R))

Patent Family Information

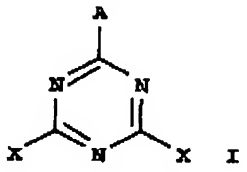
Patent No.	Kind	Date	Application No.	Date
JP 2005154408	A2	20050616	JP 2004-205390	20040713

Priority Application		
JP 2003-368238	A	20031029

Abstract

Substituted-2-mercapto-4,6-dihalo-s-triazines I (A = SR; R = C1-18 alkyl, C1-18 alkenyl, C1-18 alkynyl, C1-18 cycloalkyl, these groups may be substituted with R1, Ph optionally substituted with C1-6 alkyl, C1-6 haloalkyl, Ph, C1-6 alkoxy, halo, cyano, NO2; R1 = C1-6 alkoxy, C1-6 alkylmercapto; X = halo), useful as intermediates for triazine herbicides, are prepd. by reacting I (A = halo; X = same as above) with RSH (R = same as above) in the presence of metal catalysts. Thus, MeSH was added dropwise to a mixt. of cyanuric

chloride, Cu2O, Bu3N, H2O, and toluene at 20° and 32 kPa over 7 h to give 91.19% 2,4-dichloro-6-methylthio-1,3,5-triazine.



I

Patent Classifications

Main IPC: C07D251-38. **Secondary IPC:** C07B061-00.

Indexing -- Section 28-19 (Heterocyclic Compounds (More Than One Hetero Atom)
Section cross-reference(s): 5

Herbicides
Sulfuration catalysts
(prepn. of substituted-2-mercapto-4,6-dihalo-s-triazines as herbicide intermediates from trihalotriazines, thiols, and metal catalysts)

Metals, uses
Transition metals, uses
Role: CAT (Catalyst use); USES (Uses)
(prepn. of substituted-2-mercapto-4,6-dihalo-s-triazines as herbicide intermediates from trihalotriazines, thiols, and metal catalysts)

Thiols, reactions
Role: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of substituted-2-mercapto-4,6-dihalo-s-triazines as herbicide intermediates from trihalotriazines, thiols, and metal catalysts)

7439-89-6, Iron, uses
Role: CAT (Catalyst use); USES (Uses)
(cocatalyst; prepn. of substituted-2-mercapto-4,6-dihalo-s-triazines as herbicide intermediates from trihalotriazines, thiols, and metal catalysts)

101-02-0, Triphenyl phosphite
102-82-9, Tributylamine
104-90-5, 5-Ethyl-2-methylpyridine
7688-25-7
Role: CAT (Catalyst use); USES (Uses)
(ligand; prepn. of substituted-2-mercapto-4,6-dihalo-s-triazines as herbicide intermediates from trihalotriazines, thiols, and metal catalysts)

1317-39-1, Copper(I) oxide, uses
7440-05-3, Palladium, uses
7440-05-3D, Palladium, compds.
7440-50-8D, Copper, compds.
7447-39-4, Copper(II) chloride, uses
7647-10-1, Palladium chloride
7758-98-7, Copper sulfate, uses
13965-03-2

Role: CAT (Catalyst use); USES (Uses)
(prepn. of substituted-2-mercapto-4,6-dihalo-s-triazines as herbicide intermediates from trihalotriazines, thiols, and metal catalysts)

13705-05-0P, 2,4-Dichloro-6-methylthio-1,3,5-triazine
Role: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of substituted-2-mercapto-4,6-dihalo-s-triazines as herbicide intermediates from trihalotriazines, thiols, and metal catalysts)

74-93-1, Methyl mercaptan, reactions
108-77-0, Cyanuric chloride
108-80-5D, Cyanuric acid, halides
5188-07-8, Sodium methyl mercaptan
Role: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of substituted-2-mercapto-4,6-dihalo-s-triazines as herbicide intermediates from trihalotriazines, thiols, and metal catalysts)

Supplementary Terms

cyanuric chloride sulfuration mercaptan transition metal catalyst; methylthiodichlorotriazine prepn intermediate herbicide

Research Topic task started on Fri Aug 19, 2005 at 3:17 PM

11 Research Topic candidates were identified in CAPLUS.

using the phrase "reaction of cyanuric halide with thiols"

Selected 1 of 11 candidate topics.
8 references were found where all of the concepts **"reaction"**, **"cyanuric halide"** and **"thiols"** were present anywhere in the reference.

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Bibliographic Information

Therapeutically active s-triazine derivatives. Friedheim, Ernst A. H. (1947), US 2415554 19470211 Patent language unavailable. CAN 41:31182 AN 1947:31182 CAPLUS (Copyright 2005 ACS on SciFinder (R))

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
US 2415554		19470211	US	

Abstract

s-Triazine derivs. were prepd. having the general formula A.sbd.L.sbd.NHC:N.CY:N.CZ:N (I) in which A consists of cyclic sulfonic acid groups which may contain substituting groups such as OH, O-alkyl, halogen, NH-alkyl, NH-acyl, CONH2, SO2NH2. The cyclic sulfonic acid groups may be 8-hydroxy-3,6-disulfo-1-quinolyl, 8-methyl-5-sulfo-7-quinolyl, 8-hydroxy-4,6-disulfo-1-naphthyl, sulfocarbazolyl, 3,5-disulfophenyl, 5,8-disulfo-1-naphthyl, 5-sulfo-2-pyridyl, etc. L stands for a cyclic acid amide-contg. link such as a group from benzamide, naphthamide, benzenesulfonamide, etc. Y and Z may be the same or different and may be halogen or a residue of inorg. or org. mol. contg. a H atom capable of reacting with a cyanuric halide, or they may be A.sbd.L.sbd.NH.sbd. groups. The compds. in the form of their Na salts are white or yellowish powders, sol. in water, insol. in CHCl3 or Et2O, and dissolving in concd. H2SO4. The

following compds. were prepd. in which A.sbd.L.sbd.NH of the general formula I is the residue (R) from 8-[3-(3-aminobenzamido)-4-methylbenzamido]-1,3,5-naphthalenetrisulfonic acid. A.sbd.L.sbd.NH.sbd. may be the residue RI from 8-[m-(m-aminobenzamido)benzamido]-1-naphthol-3,6-disulfonic acid, thus RI is A.sbd.L.sbd.NH.sbd. may be the residue RII from 8-(m-aminophenylsulfonamido)-1-naphthol-3,6-disulfonic acid, thus RII is A.sbd.L.sbd.NH.sbd. may be the residue RIII Compds. contg. these groups are

Indexing -- Section 10 (Organic Chemistry)

Pharmaceuticals
(s-triazine derivs.)

1,3,5-Naphthalenetrisulfonic acid, 8-[3-[3-(4,6-dimercapto-s-triazin-2-ylamino)benzamido]-p-toluamido]-
2-Thiazolol, 5-chloro-4-methyl-

90-20-0, 1-Naphthol-3,6-disulfonic acid, 8-amino-
290-87-9, s-Triazine
504-08-5, s-Triazine, 2,4-diamino-
23261-58-7, 5-Quinolinesulfonic acid
(derivs.)

721412-04-0, 2-Thiazolol, 5-bromo-
850637-98-8, s-Triazine, 2-chloro-4,6-bis[2-(3,5-disulfophenylcarbamoyl)-5-quinolylamino]-
850638-72-1, s-Triazine, 2,2'-dithiobis[4,6-bis[m-[5-(4,6,8-trisulfo-1-naphthylcarbamoyl)-o-tolylcarbamoyl]anilino]-
850638-73-2, s-Triazine, 2,2'-dithiobis[4-amino-6-[m-[5-(4,6,8-trisulfo-1-naphthylcarbamoyl)-o-tolylcarbamoyl]anilino]-
854242-40-3, 3,3'-Biphenyldisulfonic acid, 4,4'-bis[4-amino-6-[m-[5-(4,6,8-trisulfo-1-naphthylcarbamoyl)-o-tolylcarbamoyl]anilino]-s-triazin-2-ylamino]-
856185-60-9, Melamine, N2,N4-bis[m-[2-[(8-hydroxy-4,6-disulfo-1-naphthyl)carbamoyl]vinyl]phenyl]-
856186-46-4, Melamine, N2-[m-[[m-[(8-hydroxy-3,6-disulfo-1-naphthyl)carbamoyl]phenyl]carbamoyl]phenyl]-N4-[m-[(8-hydroxy-3,6-disulfo-1-naphthyl)sulfamoyl]phenyl]-N6-[m-[5-(4,6,8-trisulfo-1-naphthylcarbamoyl)-o-tolylcarbamoyl]phenyl]-
856186-67-9, Melamine, [m-[5-(4,6,8-trisulfo-1-naphthylcarbamoyl)-o-tolylcarbamoyl]phenyl]-
856186-67-9, 1,3,5-Naphthalenetrisulfonic acid, 8-[3-[3-(4,6-diamino-s-triazin-2-ylamino)benzamido]-p-toluamido]-
856186-70-4, Melamine, N2,N4,N6-tris[m-[5-(4,6,8-trisulfo-1-naphthylcarbamoyl)-o-tolylcarbamoyl]phenyl]-
857009-84-8, s-Triazine, 2-bromo-4,6-bis[5-[[5-[(8-hydroxy-4,6-disulfo-1-naphthyl)carbamoyl]-2-methoxyphenyl]carbamoyl]-o-anisidino]-
857010-62-9, s-Triazine, 2-chloro-4,6-bis[5-[(8-methyl-5-sulfo-7-quinolyl)sulfamoyl]-1-naphthylamino]-
857978-18-8, s-Triazine, 2-chloro-4,6-bis[m-[5-(4,6,8-trisulfo-1-naphthylcarbamoyl)-o-tolylcarbamoyl]anilino]-
857978-19-9, s-Triazine, 2-chloro-4-[m-[m-(8-hydroxy-3,6-disulfo-1-naphthylcarbamoyl)phenylcarbamoyl]anilino]-6-[m-[5-(4,6,8-trisulfo-1-naphthylcarbamoyl)-o-tolylcarbamoyl]anilino]-
857993-49-8, 1,3,5-Naphthalenetrisulfonic acid, 8-[3-[3-(4,6-dichloro-s-triazin-2-ylamino)benzamido]-p-toluamido]-
857993-52-3, 1,3,5-Naphthalenetrisulfonic acid, 8-[3-[3-(4-amino-6-chloro-s-triazin-2-ylamino)benzamido]-p-toluamido]-
859792-07-7, s-Triazine-2-thiol, 4,6-bis[m-[5-(4,6,8-trisulfo-1-naphthylcarbamoyl)-o-tolylcarbamoyl]anilino]-
(prepn. of)

130-23-4, 1-Naphthol-3,5-disulfonic acid, 8-amino-
(N-derivs.)

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